

✓1744



1600

ENTERED

RAW SEQUENCE LISTING

DATE: 03/04/2002

PATENT APPLICATION: US/09/983,536

TIME: 08:35:16

Input Set : A:\620-173.app

Output Set: N:\CRF3\03042002\I983536.raw

```

3 <110> APPLICANT: Carrillo, Nestor J
4   Valle, Estela M
5   Tognetti, Vanesa B
6   Palatnik, Javier F
7   Castejon, Maria FF
9 <120> TITLE OF INVENTION: Stress Tolerant Plants
11 <130> FILE REFERENCE: 620-173
13 <140> CURRENT APPLICATION NUMBER: US 09/983,536
14 <141> CURRENT FILING DATE: 2001-10-24
16 <160> NUMBER OF SEQ ID NOS: 6
18 <170> SOFTWARE: PatentIn Ver. 2.1
20 <210> SEQ ID NO: 1
21 <211> LENGTH: 706
22 <212> TYPE: DNA
23 <213> ORGANISM: Artificial Sequence
25 <220> FEATURE:
26 <223> OTHER INFORMATION: Description of Artificial Sequence: Nucleic acid
27   molecule encoding fusion polypeptide
29 <400> SEQUENCE: 1
30 ggatccatca tcaacaacaa caacaacat ggctgctgca gtaacagccg cagtctcctt 60
31 gccatactcc aactccactt cccttccgat cagaacatct attggtgcac cagagagact 120
32 tgtcttcaaa aaggtttcat tgaacaatgt ttctataagt ggaagggtag gcaccatcag 180
33 agctctcata atgtcaaaga aaattggttt attctacggt actcaaaactg gtaaaaactga 240
34 atcagtagca gaaatcattc gagacgagtt tggtaatgat gtggtgacat tacacgatgt 300
35 ttcccaggca gaagtaactg acttgaatga ttatcaatat ttgattattg gctgtcctac 360
36 ttggaatatt ggcgaactgc aaagcgattg ggaaggactc tattcagaac tggatgatgt 420
37 agattttaat ggtaaattgg ttgcctactt tgggactggg gaccaaatag gttacgcaga 480
38 taattttcag gatgcgatcg gtattttgga agaaaaaatt tctcaacgtg gtggtaaaac 540
39 tgtcggctat tggtaactg atggatatga ttttaatgat tccaaggcac taagaaatgg 600
40 caagtttgta ggactagctc ttgatgaaga taatcaatct gacttaacag acgatcgcat 660
41 caaaagttgg gttgctcaat taaagtctga atttggtttg taaaaa 706
44 <210> SEQ ID NO: 2
45 <211> LENGTH: 233
46 <212> TYPE: PRT
47 <213> ORGANISM: Artificial Sequence
49 <220> FEATURE:
50 <223> OTHER INFORMATION: Description of Artificial Sequence: Predicted
51   protein sequence of transit peptide and flavodoxin
52   protein
54 <400> SEQUENCE: 2
55 Asp Pro Ser Ser Thr Thr Thr Thr Asn Met Ala Ala Ala Val Thr Ala
56   1           5           10           15
58 Ala Val Ser Leu Pro Tyr Ser Asn Ser Thr Ser Leu Pro Ile Arg Thr

```

RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/983,536

DATE: 03/04/2002

TIME: 08:35:16

Input Set : A:\620-173.app

Output Set: N:\CRF3\03042002\I983536.raw

```

59          20          25          30
61 Ser Ile Val Ala Pro Glu Arg Leu Val Phe Lys Lys Val Ser Leu Asn
62          35          40          45
64 Asn Val Ser Ile Ser Gly Arg Val Gly Thr Ile Arg Ala Leu Ile Met
65          50          55          60
67 Ser Lys Lys Ile Gly Leu Phe Tyr Gly Thr Gln Thr Gly Leu Thr Glu
68 65          70          75          80
70 Ser Val Ala Glu Ile Ile Arg Asp Glu Phe Gly Asn Asp Val Val Thr
71          85          90          95
73 Leu His Asp Val Ser Gln Ala Glu Val Thr Asp Leu Asn Asp Tyr Gln
74          100          105          110
76 Tyr Leu Ile Ile Gly Cys Pro Thr Trp Asn Ile Gly Glu Leu Gln Ser
77          115          120          125
79 Asp Trp Glu Gly Leu Tyr Ser Glu Leu Asp Asp Val Asp Phe Asn Gly
80          130          135          140
82 Lys Leu Val Ala Tyr Phe Gly Thr Gly Asp Gln Ile Gly Tyr Ala Asp
83 145          150          155          160
85 Asn Phe Gln Asp Ala Ile Gly Ile Leu Glu Glu Lys Ile Ser Gln Arg
86          165          170          175
88 Gly Gly Lys Thr Val Gly Tyr Trp Ser Thr Asp Gly Tyr Asp Phe Asn
89          180          185          190
91 Asp Ser Lys Ala Leu Arg Asn Gly Lys Phe Val Gly Leu Ala Leu Asp
92          195          200          205
94 Glu Asp Asn Gln Ser Asp Leu Thr Asp Asp Arg Ile Lys Ser Trp Val
95          210          215          220
97 Ala Gln Leu Lys Ser Glu Phe Gly Leu
98 225          230
101 <210> SEQ ID NO: 3
102 <211> LENGTH: 162
103 <212> TYPE: DNA
104 <213> ORGANISM: Pisum sativum
106 <400> SEQUENCE: 3
107 atggctgctg cagtaacagc cgcagtctcc ttgccataact ccaactccac ttcccttccg 60
108 atcagaacat ctattgttgc accagagaga cttgtcttca aaaaggtttc attgaacaat 120
109 gtttctataa gtggaagggt aggcacatc agagctctca ta 162
112 <210> SEQ ID NO: 4
113 <211> LENGTH: 54
114 <212> TYPE: PRT
115 <213> ORGANISM: Pisum sativum
117 <400> SEQUENCE: 4
118 Met Ala Ala Ala Val Thr Ala Ala Val Ser Leu Pro Tyr Ser Asn Ser
119 1 5 10 15
121 Thr Ser Leu Pro Ile Arg Thr Ser Ile Val Ala Pro Glu Arg Leu Val
122 20 25 30
124 Phe Lys Lys Val Ser Leu Asn Asn Val Ser Ile Ser Gly Arg Val Gly
125 35 40 45
127 Thr Ile Arg Ala Leu Ile
128 50
131 <210> SEQ ID NO: 5

```

RAW SEQUENCE LISTING

DATE: 03/04/2002

PATENT APPLICATION: US/09/983,536

TIME: 08:35:16

Input Set : A:\620-173.app

Output Set: N:\CRF3\03042002\I983536.raw

132 <211> LENGTH: 23
133 <212> TYPE: DNA
134 <213> ORGANISM: Artificial Sequence
136 <220> FEATURE:
137 <223> OTHER INFORMATION: Description of Artificial Sequence: Primer
139 <400> SEQUENCE: 5
140 gacgagctct cataatgtca aag 23
143 <210> SEQ ID NO: 6
144 <211> LENGTH: 25
145 <212> TYPE: DNA
146 <213> ORGANISM: Artificial Sequence
148 <220> FEATURE:
149 <223> OTHER INFORMATION: Description of Artificial Sequence: Primer
151 <400> SEQUENCE: 6
152 actgtcgact ttttacaac caaat 25

VERIFICATION SUMMARY

DATE: 03/04/2002

PATENT APPLICATION: US/09/983,536

TIME: 08:35:17

Input Set : A:\620-173.app

Output Set: N:\CRF3\03042002\I983536.raw